

**ABSTRACT**

- A method for capturing at least one image of an existing man-made structure and for detecting the presence of failure(s) in such existing man-made structure including: providing a detectable material on the surface or in an existing  
5 man-made structure so that portions of the detectable material will be present in the failure(s) of the existing man-made structure; providing an image sensor and which captures at least one image of the existing man-made structure and identifies failure(s) due to the existence of the detectable material in the failure(s) to provide at least one digital image; and processing the captured digital image(s)  
10 to provide a visual image of the existing man-made structure to determine the presence of failure(s) in the existing man-made structure.